

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF CO United States Patent and Trademark Offi Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET N	O. CONFIRMATION NO	
10/607,491	06/25/2003	Chang-Hyun Shin	11037-119-999	4977	
24341	7590 06/23/2004		EX	EXAMINER	
MORGAN, LEWIS & BOCKIUS, LLP.			ALI, HYDER		
PALO ALTO	EW AVENUE CA 94304		ART UNIT	PAPER NUMBER	
	,		3747		

DATE MAILED: 06/23/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/607,491	SHIN, CHANG-HYUN				
Office Action Summary	Examiner	Art Unit				
	HYDER ALI	3747				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	· _•					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-14 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on 25 June 2003 is/are: a)	⊠ accepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti		•				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	s have been received in Application	on No				
Copies of the certified copies of the prior		d in this National Stage				
application from the International Bureau	` "					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:	Apriloation (i 10-102)				

Art Unit: 3747

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kawai et al (JP 11-82095).

As to Claim 1, Kawai et al discloses an apparatus for inducting air for an engine, comprising: a throttle body having a main passage formed there through, a throttle valve 42 mounted in the main passage, and a bypass passage 48 bypassing the throttle valve; and a surge tank 30 connected to the throttle body to receive intake air from the throttle body, wherein the bypass passage 48 extends to the surge tank 30, and the surge tank defines a chamber 82,84 connected to the bypass passage 48.

As to Claim 2, Kawai et al discloses an outlet passage is formed from the chamber to the main passage, the outlet passage being inclined toward main passage with predetermined angle.

Application/Control Number: 10/607,491

Art Unit: 3747

As to Claim 3, Kawai et al discloses the chamber 82,84, having dimensions capable of temporarily storing of the intake air from the bypass passage, is formed on the periphery of the main passage with predetermined range.

As to Claim 4, Kawai et al discloses the chamber 82,84, having dimensions capable of temporary storing of the intake air from the bypass passage, is formed on the periphery of the main passage with predetermined range.

As to Claim 5, Kawai et al discloses the bypass passage 48 extends in the direction of the surge tank in parallel with the main passage.

As to Claim 6, Kawai et al discloses the bypass passage 48 extends in the direction of the surge tank in parallel with the main passage.

As to Claim 7, Kawai et al discloses the bypass passage 48 extends in the direction of the surrge tank in parallel with to the main passage.

As to Claim 8, Kawai et al discloses an apparatus comprising: a throttle body defining a main passage and a bypass passage 48 having an inlet in the main passage; a throttle valve 42 disposed in said main passage downstream of the bypass inlet; a surge tank 30 positioned downstream of the throttle valve and defining a continuation of the main passage to receive airflow there through, said surge tank further defining a bypass passage 82,84 communicating with said throttle body bypass passage 48, and an outlet from said bypass passage 82,84 into the surge tank main passage.

As to Claim 9, Kawai et al discloses said bypass passage 82,84 outlet in said surge tank is oriented at an angle with respect to airflow in the main passage to reduce noise resulting from simultaneous flow through said passages.

As to Claim 10, Kawai et al discloses said bypass passage 82,84 in the surge tank 30 defines an enlarged chamber to store bypass air for supply to the main passage upon opening of the bypass passage.

As to Claim 11, Kawai et al discloses opening and closing of the bypass passage is controlled by a solenoid valve 50.

As to Claim 12, Kawai et al discloses an apparatus, comprising: a throttle body defining a main passage and a bypass passage 48 having an inlet in the main passage; a throttle valve 42 disposed in said main passage for opening and closing same; a surrge tank 30 positioned downstream of the throttle valve 42 and defining (i) a continuation of the main passage to receive airflow there through, (ii) a bypass 82,84 passage communicating with said throttle body bypass passage 48, said surge tank bypass passage 82,84 including an enlarged chamber, and (iii) an outlet from said bypass passage 82,84 into the surge tank main passage, said outlet being oriented to direct bypass flow in a direction gradually confluent with main passage flow.

As to Claim 13, Kawai et al discloses said enlarged chamber 82,84 is of sufficient volume to store bypass air for supply to the main passage upon opening of the bypass valve, thereby stabilizing operation of an engine receiving intake air therefrom.

As to Claim 14, Kawai et al discloses the bypass valve is a solenoid valve 50.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The references by Hwang et al (US 6,360,708), Hwang et al

Application/Control Number: 10/607,491

Art Unit: 3747

Page 5

(6,634,334), Kaji et al (4,922,879), and Igarashi et al (5,564,387) all discloses bypass

passage.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HYDER ALI whose telephone number is (703) 308-

3949. The examiner can normally be reached on M-F (8:00-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, HENRY YUEN can be reached on (703) 308-1946. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

ha

Hose AL

Ton h Angenbright Primary Braminer

Art Unit 3747